

Inspection methodology: Culvert

- a. The structure to be assessed is identified and located with the help of available local people and liaison and its GPS location is recorded.
- b. The direction of flow is identified and upstream side is taken as a reference side for further measurements.
- c. The type of culvert is identified and its length and width are measured. In case of pipe culvert, the diameter and number of pipes are recorded.
- d. Length, width and height of wing walls, headwalls, etc. are measured along with the material of construction. The strength of the concerned wall is found with the help of Rebound hammer test at an adequate number of points.
- e. The conditions of the headwall, wing wall, apron, etc. are observed. Also, skewness, settlement, scouring, blockage, etc. are observed.
- f. With the help of villagers, information regarding the process of construction is also collected.
- g. Images of all the data observed on field are also captured.
- h. The data observed on the field is recorded in *ODK collect* mobile application.